

# EXHIBIT A

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 CFR 1.821 - 1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e).
- ☐ 7.

Other: \_\_\_\_\_

**Applicant must provide:**

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing"
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d)

For questions regarding compliance with these requirements, please contact:

For Rules Interpretation, call (703) 308-1123  
 For CRF submission help, call (703) 308-4212  
 For PatentIn software help, call (703) 557-0400

Please return a copy of this notice with your response.

Applicants' Copy

PAGE: 1

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/822,963

DATE: 05/05/98  
TIME: 14:45:52

INPUT SET: S25541.raw

This Raw Listing contains the General  
Information Section and those Sequences  
containing ERRORS.

Does Not Comply  
Corrected Diskette Needed

## SEQUENCE LISTING

## (1) General Information

(i) APPLICANT: <sup>no 5</sup> DAKAI LIU  
RABBANI, ELAZAR

(ii) TITLE OF INVENTION: VECTORS AND VIRAL VECTORS, AND PACKAGING CELL LINES FOR (PR

(iii) NUMBER OF SEQUENCES: 16

## (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: ENZO THERAPEUTICS, INC.

(B) STREET: C/O ENZO BIOCHEM, INC.

527 MADISON AVENUE, 9TH FLOOR

(C) CITY: NEW YORK

(D) STATE: NY

(E) COUNTRY: USA

(F) ZIP: 10022

## (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5" Micro Floppy Disk. 1.44 KB  
STORAGE

(B) COMPUTER: IBM PC/XT/AT, IBM PS/2 OR COMPATIBLES

(C) OPERATING SYSTEM: PC-DOS

(D) SOFTWARE: MICROSOFT WORD \_\_\_\_ - ASCII TEXT (DOS)

## (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/822,963

(B) FILING DATE: 21-MARCH-1997

(C) CLASSIFICATION: Not Yet Known

## (vii) ATTORNEY/AGENT INFORMATION:

(A) NAME: FEDUS, RONALD C.

(B) REGISTRATION NUMBER: 32,567

(C) REFERENCE/DOCKET NUMBER: ENZ-56

## (viii) TELECOMMUNICATION INFORMATION

(A) TELEPHONE: (212) 583-0100

(B) TELEFAX: (212) 583-0150

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Suggestion: Study  
sequence rules for  
proper format.

"16" are shown - do not  
place dashes  
before or after  
numeric  
total;  
just use 16

ALL text  
must be  
visible on  
page

Please telephone  
Arti Shah,  
703-308-4212  
if you have questions

delete - does not belong here

ERRORED SEQUENCES FOLLOW:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/822,963DATE: 05/05/98  
TIME: 14:45:53

INPUT SET: S25541.raw

44 (2) INFORMATION FOR SEQ ID NO:1:  
45 (1) SEQUENCE CHARACTERISTICS:  
--> 46 (A) LENGTH:9 base pairs  
47 (B) TYPE:nucleic acid  
48 (C) STRANDEDNESS:double  
49 (D) TOPOLOGY:linear  
50 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:1:

51  
52 TATCACCGC  
53 ATAGTGGCG  
54  
55  
56  
57  
58

involved - Per 1.822 (j) of sequence  
Rules, a nucleotide sequence shall be  
presented, only by a single strand,  
in the 5' to 3' direction, from left to right

Per 1.822 (l),  
sequence rules,  
cumulative based  
goes to right 96-103  
margin of each line

59 (2) INFORMATION FOR SEQ ID NO:2:  
60 (1) SEQUENCE CHARACTERISTICS:  
--> 61 (A) LENGTH:9 base pairs  
62 (B) TYPE:nucleic acid  
63 (C) STRANDEDNESS:double  
64 (D) TOPOLOGY:linear  
65 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:2:

66  
67 ACAAGAAAA  
68 TGTTCTTTT  
69

same error  
throughout listing

total

70 (2) INFORMATION FOR SEQ ID NO:3:  
71 (1) SEQUENCE CHARACTERISTICS:  
--> 72 (A) LENGTH:10 base pairs  
73 (B) TYPE:nucleic acid  
74 (C) STRANDEDNESS:double  
75 (D) TOPOLOGY:linear  
76 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:3:

77  
78 GTACTAGTTA  
79 CATGATCAAT  
80

81 (2) INFORMATION FOR SEQ ID NO:4:  
82 (1) SEQUENCE CHARACTERISTICS:  
--> 83 (A) LENGTH:8 base pairs  
84 (B) TYPE:nucleic acid  
85 (C) STRANDEDNESS:double  
86 (D) TOPOLOGY:linear  
87 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:4:

88  
89 AGACGTCT  
90 TCTGCAGA  
91

92 (2) INFORMATION FOR SEQ ID NO:5:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/822,963DATE: 05/05/98  
TIME: 14:45:54

INPUT SET: S25541.raw

--> 93 (1) SEQUENCE CHARACTERISTICS:  
94 (A) LENGTH:24 base pairs  
95 (B) TYPE:nucleic acid  
96 (C) STRANDEDNESS:double  
97 (D) TOPOLOGY:linear  
98 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:5:  
99  
100 TGGGAATTGTGAGCGGATAACAATT  
101 ACCTTAACACTCGCCTATTGTAA  
102

*insert data*  
*also,*  
*invalid - Per 1.822 (f) of sequence rule*  
*non-coding bases are divided into*  
*groups of 10 bases.*

--> 103 (2) INFORMATION FOR SEQ ID NO:6:  
104 (1) SEQUENCE CHARACTERISTICS:  
105 (A) LENGTH:4 base pairs  
106 (B) TYPE:nucleic acid  
107 (C) STRANDEDNESS:double  
108 (D) TOPOLOGY:linear  
109 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:6:  
110  
111 TAAT  
112 ATTA  
113

--> 114 (2) INFORMATION FOR SEQ ID NO:7:  
115 (1) SEQUENCE CHARACTERISTICS:  
116 (A) LENGTH:9 base pairs  
117 (B) TYPE:nucleic acid  
118 (C) STRANDEDNESS:double  
119 (D) TOPOLOGY:linear  
120 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:7:  
121  
122 CATGTAATT  
123 GTACATTAA  
124

--> 125 (2) INFORMATION FOR SEQ ID NO:8:  
126 (1) SEQUENCE CHARACTERISTICS:  
127 (A) LENGTH:13 base pairs  
128 (B) TYPE:nucleic acid  
129 (C) STRANDEDNESS:double  
130 (D) TOPOLOGY:linear  
131 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:8:  
132  
133 AAAAGTGTGACAT  
134 TTTTCACACTGTA  
135

--> 136 (2) INFORMATION FOR SEQ ID NO:9:  
137 (1) SEQUENCE CHARACTERISTICS:  
138 (A) LENGTH:11 base pairs  
139 (B) TYPE:nucleic acid  
140 (C) STRANDEDNESS:double  
141 (D) TOPOLOGY:linear

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/822,963DATE: 05/05/98  
TIME: 14:45:55

INPUT SET: S25541.raw

142 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:9:  
143  
144 CCGGAGGACAG  
145 GGCTCCTGTC  
146

147 (2) INFORMATION FOR SEQ ID NO:10:  
148 (i) SEQUENCE CHARACTERISTICS:  
--> 149 (A) LENGTH:12 base pairs  
150 (B) TYPE:nucleic acid  
151 (C) STRANDEDNESS:double  
152 (D) TOPOLOGY:linear  
153 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:10:  
154  
155 ACCGACGTCGGT  
156 TGGCTGCAGCCA  
157

158 (2) INFORMATION FOR SEQ ID NO:11:  
159 (i) SEQUENCE CHARACTERISTICS:  
--> 160 (A) LENGTH:6 base pairs  
161 (B) TYPE:nucleic acid  
162 (C) STRANDEDNESS:double  
163 (D) TOPOLOGY:linear  
164 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:11:  
165  
166 ATGATC  
167 TACTAG  
168

169 (2) INFORMATION FOR SEQ ID NO:12:  
170 (i) SEQUENCE CHARACTERISTICS:  
--> 171 (A) LENGTH:9 base pairs  
172 (B) TYPE:nucleic acid  
173 (C) STRANDEDNESS:double  
174 (D) TOPOLOGY:linear  
175 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:12:  
176  
177 SCGTGGGCG  
178 CGCACCCGC  
179

180 (2) INFORMATION FOR SEQ ID NO:13:  
181 (i) SEQUENCE CHARACTERISTICS:  
--> 182 (A) LENGTH:9 base pairs  
183 (B) TYPE:nucleic acid  
184 (C) STRANDEDNESS:double  
185 (D) TOPOLOGY:linear  
186 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:13:  
187  
188 CAGAACATC  
189 GTCTTGTAG  
190

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/822,963DATE: 05/05/98  
TIME: 14:45:56

INPUT SET: S25541.raw

191 (2) INFORMATION FOR SEQ ID NO:14:  
192 (1) SEQUENCE CHARACTERISTICS:  
--> 193 (A) LENGTH:8 base pairs  
194 (B) TYPE:nucleic acid  
195 (C) STRANDEDNESS:double  
196 (D) TOPOLOGY:linear  
197 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:14:  
198  
199 TATATAAA  
200 ATATATTT  
201

202 (2) INFORMATION FOR SEQ ID NO:15:  
203 (1) SEQUENCE CHARACTERISTICS:  
--> 204 (A) LENGTH:309 base pairs 319 shown  
205 (B) TYPE:nucleic acid  
206 (C) STRANDEDNESS:single  
207 (D) TOPOLOGY:linear  
208 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:15:  
209  
--> 210 GAACAGATGGAACAGCTGAATATGGGCCAAACAGGATATCTGTGGTAAGC1  
211 AGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGAACAGCTGAATATGG51  
212  
213 GCCAAACAGGATATCTGTGGTAAGCAGTTCTGCCCCGGCYCAGGGCCA101  
214  
215 GAACAGATGGTCCCCAGATGCGGTCCAGCCCTCAGCAGTTTCTAGAGAAC151  
216  
217 CATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTT201  
218  
219 ATTTGAACTAACCAATCAGTTCGCTTCTCGCTTCTGTTGCGCGCTTCTG251  
220  
--> 221 CTCCCCGAGCTCAATAAAN301  
222  
223

invalid format (see seq 5)

incorrect numbering -  
show the cumulative  
total at the end of  
each line. see  
1.822(1) of  
Sequence Rules

224 (2) INFORMATION FOR SEQ ID NO:16:  
225 (1) SEQUENCE CHARACTERISTICS:  
--> 226 (A) LENGTH:309 base pairs 326 shown  
227 (B) TYPE:nucleic acid  
228 (C) STRANDEDNESS:single  
229 (D) TOPOLOGY:linear  
230 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:16:  
231  
--> 232 ACGCTTGATCCGGCTACCTGCCATTGACCACCAAGCGAAACATCGCAT1  
233  
234 CGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGTGCGATCAGGATGATC51  
235  
236 TGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAAGTTCGCCAGGCTC101  
237  
238 AAGGCGCGCATGCCCGACGGCGAGGATCTCGTCTGACTTTCTAGAGAAC151  
239  
240 CATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTT201

invalid format

incorrect numbering

see next page

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/822,963DATE: 05/05/98  
TIME: 14:45:57

INPUT SET: S25541.raw

241  
242 ATTTGAACTAACCGGTCAGTTCGCTTCTCGCTTCTGTTTCGCGCGCTTCTG251 incorrect

243

244 CTCCCCGAGCTCAGCTGCG

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

--&gt; 264 LC/WORD/USPROSECUTION/ENZ56/SEQUENCE LISTING.10.1.97

--&gt; 265 SEQ ID NO: 1, PAGE 6

266

267 ENZ-56

268

269 ENZ-56

270

271

272

< insert total  
(cumulative)

delete



**INPUT SET: S25541.raw**

[illegible]

SEQUENCE VERIFICATION REPORT  
PATENT APPLICATION US/08/822,963DATE: 05/05/98  
TIME: 14:46:00

INPUT SET: S25541.raw

Line	Error	Original Text
264	Wrong Nucleic Acid Designator	LC/WORD/USPROSECUTION/ENZ56/SEQUENCE LIS
264	Wrong Nucleic Acid Designator	LC/WORD/USPROSECUTION/ENZ56/SEQUENCE LIS
264	# of Sequences for line conflicts w/ running total	LC/WORD/USPROSECUTION/ENZ56/SEQUENCE LIS
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	# of Sequences for line conflicts w/ running total	SEQ ID NO: 1, PAGE 6

# EXHIBIT B

# SEQUENCE LISTING

<110> Liu, Dakai  
Rabbani, Elazar

<120> VECTORS AND VIRAL VECTORS, AND PACKAGING CELL LINES FOR  
PROPOGATING SAME

<130> ENZ-56SequenceListing.110398

<140> 08/822,963

<141> 1997-03-21

<160> 16

<170> PatentIn Ver. 2.0

<210> 1

<211> 9

<212> DNA

<213> Bacteriophage lambda

<220>

<223> Description of Artificial Sequencenucleic acid,  
double stranded, linear topology

<220>

<223> Description of Artificial Sequence:nucleic acid,  
double stranded, linear topology

<400> 1

tatcaccgc

9

<210> 2

<211> 9

<212> DNA

<213> bacteriophage 434

<220>

<223> Description of Artificial Sequence:nucleic acid,  
double stranded, linear topology

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acaagaaaa

9

<210> 3

<211> 10

<212> DNA

<213> Escherichia coli

<220>

<223> Description of Artificial Sequence:nucleic acid,  
double stranded, linear topology

<400> 3

gtactagtta

10

<210> 4

<211> 8

<212> DNA

<213> Escherichia coli

<220>

<223> Description of Artificial Sequence:nucleic acid,  
double stranded, linear topology

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agacgtct

8

<210> 5

<211> 24

<212> DNA

<213> Escherichia coli

<220>

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double stranded, linear topology

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tggaattgtg agcggataac aatt

24

<210> 6

<211> 4

<212> DNA

<213> Drosophila melanogaster

<220>

<223> Description of Artificial Sequence:nucleic acid,  
double stranded, linear topology

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taat

4

<210> 7

<211> 9

<212> DNA

<213> MAT alpha 2 yeast

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<223> Description of Artificial Sequence:nucleic acid,  
double stranded, linear topology

<400> 7

catgtaatt

9

<210> 8

<211> 13

<212> DNA

<213> Escherichia coli

<220>

<223> Description of Artificial Sequence:nucleic acid,  
double stranded, linear topology

<400> 8

aaaagtgtga cat

13

<210> 9

<211> 11

<212> DNA

<213> GAL4 yeast

<220>

<223> Description of Artificial Sequence:nucleic acid,  
double stranded, linear topology

<400> 9

ccggaggaca g

11

<210> 10

<211> 12

<212> DNA

<213> Papillomavirus sylvilagi

<220>

<223> Description of Artificial Sequence:nucleic acid,  
double stranded, linear topology

<400> 10

accgacgtcg gt

12

<210> 11

<211> 6

<212> DNA

<213> GCN4 yeast

<220>

<223> Description of Artificial Sequence:nucleic acid,  
double stranded, linear topology

<400> 11

atgatc

6

<210> 12

<211> 9

<212> DNA

<213> zif268 murine

<220>

<223> Description of Artificial Sequence:nucleic acid,  
double stranded, linear topology

<400> 12

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9

<210> 13

<211> 9

<212> DNA

<213> human glucocorticoid

<220>

<223> Description of Artificial Sequence:nucleic acid,  
double stranded, linear topology

<400> 13

cagaacatc

9

<210> 14

<211> 8

<212> DNA

<213> tfiid

<220>

<223> Description of Artificial Sequence:nucleic acid,  
double stranded, linear topology

<400> 14

tatataaa

8

<210> 15

<211> 319

<212> DNA

<213> murine leukemia virus

<220>

<223> Description of Artificial Sequence:nucleic acid,  
single stranded, linear topology

<400> 15

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taagcagttc ctgccccggc tcagggccaa gaacagatgg tccccagatg cgttccagcc 180
ctcagcagtt tctagagaac catcagatgt ttccaggggtg cccaaggac ctgaaatgac 240
cctgtgcctt atttgaacta accaatcagt tcgcttctcg cttctgttcg cgcgcttctg 300
ctccccgagc tcaataaaa                                     319
```

<210> 16

<211> 319

<212> DNA

<213> murine leukemia virus

<220>

<223> Description of Artificial Sequence:nucleic acid,  
single stranded, linear topology

<400> 16

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cgtactcgga tggaagccgg tcttgtcgat caggatgac tggaagcaga gcatcagggg 120
ctcgcgccag ccgaactgtt cgccaggctc aaggcgcgca tgcccgacgg cgaggatctc 180
gtcgtgactt tctagagaac catcagatgt ttccaggggtg cccaaggac ctgaaatgac 240
cctgtgcctt atttgaacta accggtcagt tcgcttctcg cttctgttcg cgcgcttctg 300
ctccccgagc tcagctgag                                     319
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